Approved For Release 2003/12/19: CIA-RDP78B05171A000800080080-6

SECRET

NPIC/TSSG/DED-1530-69 10 March 1969

MEMORANDUM FOR : Chief, Plans & Programs Division, PPBS/NPIC

THROUGH

: Chief, Technical Services & Support Group, NPIC

SUBJECT

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: RMD Status Report on Selected Projects

REFERENCE

: PPD/PPBS Speed Letter Dated 24 December 1968

1. The following February Project Status information is forwarded in response to the request contained in the reference letter:

a. High Precision Stereo Comparator - The project is just about on schedule. No major problems were encountered during the last month.

the optical subcontractor, is maintaining the new schedule and has completed 55% of the optical work. Project Manager will spend two days during the middle of March in Washington reviewing the final plans for the site preparation for this instrument.

b. utomatic Target Recognition Program - A five week, no cost, time a tension has been granted to the contractor primarily because of delays in the receipt of demonstration breadboard omponents. The cloud screening feasibility demonstration is now scheduled for 21 April. It is still planned to demonstrate feasibility using the electronic clue extraction technique and the diffraction pattern sampling approach.

Contract negotiations for Phase IV are tentatively scheduled for the week of 21-25 April. This phase will be a sixteen month effort and result in an engineering prototype automatic cloud screener for on-line testing.

- c. 1540 Light Table Acceptance testing by the Engineering Support Division was completed on 7 March. Operational evaluation by IEG is scheduled from 10 March to 7 April, I'S from 7-21 April, DIAAP-9 from 21-28 April, and Army/SP D from 28 April to 5 May.
- d. Dry Silver Materials & Equipment Report Critical heat transfer problems are app rent with low gamma processing. E treme sensitivity of the material is indicated. Chemists and newly acquired thermodynamic and heat transfer personnel are working on the problem.

Declass Review by NIMA/DOD

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The new clean room pilot coating plant will be shut down for two weeks for the installation of addition 1 controls and monitoping equipment. This is a pacted to considerably improve coating uniformities.

e. Wide-Field, High-Power <u>namorphic Stereoviewer</u> - The delivery
of the first phase report (the optic 1 design) and the wooden mock-up of the
instrument will be two weeks early, now scheduled for 17 March 1369. The
contractor. has essentially completed the design and is
presently completing the preliminary mechanic 1 design, the mock-up and the
first phase report. On the assumption that an acceptable optical design is
produced, the prototype instrument is still scheduled for delivery on 30
July 1970.
The staff study, mentioned in the last report, concerning the problem
of use of this instrument by operators who wear eyeglasses has been forwarded
to the E ecutive Director.
f. <u>dvanced Rhomboids Model II</u> - is completing the
fabrication of this instrument and final inspection is now scheduled for
13-14 M rch 1969. ssuming satisfactory performance the instrument should
be received by NPIC by 17 March at which time a previously scheduled
evaluation program extending to mid-M y 1969 will begin.
evaluation program extending to mid-w y 1909 will begin.
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g. Automatic Stereo Scenner - Since the last RaD Status Report,
the data for two monthly cost-to-complete reviews have been collected. The
combined schedule and cost predictions result in a five week delay to 16
June 1969 and additional funds required of
However, very serious optical design errors by in the Rhomboid
movement, year periods testing errors by
Arm section have come to light in the last two weeks since the above estimates.
Alternative solutions are being analyzed by and will be presented to
TSSG/DED and its optical consultant,, on 14 March 1969.
substintial cost and probable schedule slippage will result with any one
of the solutions; nevertheless, the Automatic Stereo Sc nner will virtually
be unuseable without these corrections. Approximately remains of
the funds uthorized for contingency use in small increments.
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h. Image Comparison Microstereoscope - Electrical design is complete and obreadboard has been constructed and tested successfully. Optical design has been completed, including on MTF analysis. In interface problem in the mechanical design of the stage linkage arose and has been

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3 - NPIC/TSSG/DED/R&DB-II

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